## AMENDMENTS TO THE CLAIMS

1-8. (Canceled)

9. (Currently amended) A host cell transformed with a reporter nucleic acid

comprising a first DNA molecule comprising segment consisting of nucleotides 3005-4336 of

SEQ ID NO:1 contiguous to nucleotides 1-243 of SEQ-ID-NO:1 SEQ ID NO:1, or a second

DNA molecule segment which [[has]] is at least 80% identity-with identical to said first DNA

molecule segment across nucleotides 3005-3484 of SEQ ID NO:1 and which has having the

same reporter and mRNA terminator function as said first DNA molecule segment.

10. (Original) The host cell of Claim 9 which is a zebrafish cell.

11. (Currently amended) A transgenic zebrafish comprising a reporter nucleic acid

comprising a first DNA molecule comprising segment consisting of nucleotides 3005-4336 of

SEQ ID NO:1 contiguous to nucleotides 1-243 of SEQ ID-NO:1 SEQ ID NO:1, or a second

DNA molecule segment which [[has]] is at least 80% identity with identical to said first DNA

molecule segment across nucleotides 3005-3484 of SEQ ID NO:1 and which has having the

same reporter and mRNA terminator function as said first DNA molecule segment.

12. (Original) The transgenic zebrafish of Claim 11 which further comprises an

induced mutation.

13. (Currently amended) The transgenic zebrafish of Claim [[11]] 12, wherein the

mutation has been induced by chemical mutagenesis.

14. (Currently amended) The transgenic zebrafish of Claim [[11]] 12, wherein the

mutation has been induced by insertional retrovirus mutagenesis.

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15. (Withdrawn) A method for identifying a gene that modulates the \(\beta\)-catenin

signaling pathway which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 11 which also comprises an induced mutation;

analyzing the level of expression of said reporter nucleic acid contained in a control

transgenic zebrafish without said mutation;

comparing the levels of expression of said reporter nucleic acid to identify zebrafish with

said mutation having an altered level of expression of said reporter nucleic acid; and

identifying the gene containing the induced mutation.

16. (Withdrawn) A method for identifying a gene that modulates the β-catenin

signaling pathway which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 30 which also comprises an induced mutation;

analyzing the level of expression of said reporter nucleic acid contained in a control

transgenic zebrafish without said mutation;

comparing the levels of expression of said reporter nucleic acid to identify zebrafish with

said mutation having an altered level of expression of said reporter nucleic acid; and

identifying the gene containing the induced mutation.

17. (Withdrawn) A method for identifying a gene that modulates the β-catenin

signaling pathway which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 32 which also comprises an induced mutation;

analyzing the level of expression of said reporter nucleic acid contained in a control

-4-

transgenic zebrafish without said mutation;

LAW OFFICES OF CHRISTENSEN O'CONNOR JOHNSON KINDNESS\*\*\*IC 1420 Fifth Avenue comparing the levels of expression of said reporter nucleic acid to identify zebrafish with said mutation having an altered level of expression of said reporter nucleic acid; and

identifying the gene containing the induced mutation.

18. (Withdrawn) A method for identifying a gene that modulates the \( \beta \)-catenin

signaling pathway which comprises:

analyzing the level of expression of the reporter nucleic acid of Claim 7 contained in a

transgenic zebrafish which also comprises an induced mutation;

analyzing the level of expression of said reporter nucleic acid contained in a control

transgenic zebrafish without said mutation;

comparing the levels of expression of said reporter nucleic acid to identify zebrafish with

said mutation having an altered level of expression of said reporter nucleic acid; and

identifying the gene containing the induced mutation.

19. (Withdrawn) A method for identifying a gene that modulates the β-catenin

signaling pathway which comprises:

analyzing the level of expression of the reporter nucleic acid of Claim 8 contained in a

transgenic zebrafish which also comprises an induced mutation;

analyzing the level of expression of said reporter nucleic acid contained in a control

transgenic zebrafish without said mutation;

comparing the levels of expression of said reporter nucleic acid to identify zebrafish with

said mutation having an altered level of expression of said reporter nucleic acid; and

identifying the gene containing the induced mutation.

20. (Withdrawn) The method of Claim 15, wherein the altered level of expression is

a reduction or loss of expression.

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-5-

21. (Withdrawn) The method of Claim 15, wherein the altered level of expression is

an increase.

22. (Withdrawn) A method for screening a candidate drug that is potentially useful

for the treatment or prevention of a disease condition involving a \(\beta\)-catenin signaling pathway

which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 11 in the presence of a candidate drug;

analyzing the level of expression of said reporter nucleic acid contained in said transgenic

zebrafish in the absence of the candidate drug;

comparing the levels of expression of said reporter nucleic acid to identify an altered

level of expression of said reporter nucleic acid in the presence of said candidate drug, wherein

an altered level of expression of said reporter nucleic acid is indicative of a drug useful for the

treatment or prevention of said disease condition.

23. (Withdrawn) A method for screening a candidate drug that is potentially useful

for the treatment or prevention of a disease condition involving a β-catenin signaling pathway

which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 30 in the presence of a candidate drug;

analyzing the level of expression of said reporter nucleic acid contained in said transgenic

zebrafish in the absence of the candidate drug;

comparing the levels of expression of said reporter nucleic acid to identify an altered

level of expression of said reporter nucleic acid in the presence of said candidate drug, wherein

an altered level of expression of said reporter nucleic acid is indicative of a drug useful for the

treatment or prevention of said disease condition.

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Seattle, Washington 98101 206 682 8100 24. (Withdrawn) A method for screening a candidate drug that is potentially useful

for the treatment or prevention of a disease condition involving a β-catenin signaling pathway

which comprises:

analyzing the level of expression of the reporter nucleic acid contained in a transgenic

zebrafish of Claim 32 in the presence of a candidate drug;

analyzing the level of expression of said reporter nucleic acid contained in said transgenic

zebrafish in the absence of the candidate drug;

comparing the levels of expression of said reporter nucleic acid to identify an altered

level of expression of said reporter nucleic acid in the presence of said candidate drug, wherein

an altered level of expression of said reporter nucleic acid is indicative of a drug useful for the

treatment or prevention of said disease condition.

25. (Withdrawn) A method for screening a candidate drug that is potentially useful

for the treatment or prevention of a disease condition involving a \(\beta\)-catenin signaling pathway

which comprises:

analyzing the level of expression of the reporter nucleic acid of Claim 7 contained in a

transgenic zebrafish in the presence of a candidate drug;

analyzing the level of expression of said reporter nucleic acid contained in said transgenic

zebrafish in the absence of the candidate drug;

comparing the levels of expression of said reporter nucleic acid to identify an altered

level of expression of said reporter nucleic acid in the presence of said candidate drug, wherein

an altered level of expression of said reporter nucleic acid is indicative of a drug useful for the

-7-

treatment or prevention of said disease condition.

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26. (Withdrawn) A method for screening a candidate drug that is potentially useful

for the treatment or prevention of a disease condition involving a β-catenin signaling pathway

which comprises:

analyzing the level of expression of the reporter nucleic acid of Claim 8 contained in a

transgenic zebrafish in the presence of a candidate drug;

analyzing the level of expression of said reporter nucleic acid contained in said transgenic

zebrafish in the absence of the candidate drug;

comparing the levels of expression of said reporter nucleic acid to identify an altered

level of expression of said reporter nucleic acid in the presence of said candidate drug, wherein

an altered level of expression of said reporter nucleic acid is indicative of a drug useful for the

treatment or prevention of said disease condition.

27. (Withdrawn) The method of Claim 22, wherein the altered level of expression is

a reduction or loss of expression.

28. (Withdrawn) The method of Claim 22, wherein the altered level of expression is

an increase.

29. (Withdrawn) The method of Claim 22, wherein said disease condition is

melanoma, colorectal cancer or osteoporosis.

30. (Currently amended) The transgenic zebrafish of Claim 11 wherein the reporter

nucleic acid comprises said first DNA molecule segment.

31. (Currently amended) The transgenic zebrafish of Claim 11 wherein the reporter

nucleic acid comprises said second DNA molecule segment.

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- 32. (Currently amended) The transgenic zebrafish of Claim 31 wherein a nucleic acid sequence encoding a wild-type wild-type GFP or a sequence having at least 98% identity to said wild-type sequence wild-type GFP replaces nucleotides 3485-4330 of SEQ ID NO:1.
- 33. (Currently amended) The transgenic zebrafish of Claim 31 wherein the nucleic acid encoding a <u>wild-type</u> GFP eomprises <u>consists of</u> the nucleotide sequence set forth in SEQ ID NO:2.